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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/730,011	12/05/2000	Richard Vandervoort Cox	1999-0767A	6590	
7590 10/14/2004			EXAMINER		
Samuel H. Dworetsky			OPSASNICK,	OPSASNICK, MICHAEL N	
AT&T CORP.	•			***	
P. O. Box 4110			ART UNIT	PAPER NUMBER	
Middletown, NJ 07748-4110			2655		

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/730,011	COX ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael N. Opsasnick	2655				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	signature of the statutory minimum of thirty (30) day within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 At						
☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>2,4 and 5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2,4,5</u> is/are rejected.						
7) Claim(s) is/are objected to.	I C					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		, , , , ,				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	ts have been received in Applicat	tion No				
3. Copies of the certified copies of the price		red in this National Stage				
application from the International Burea						
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail [5) Notice of Informal	Pate Patent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cong et al (6044343) in view of Aoyagi (5826221).

As per claim 2, Cong et al (6044343) teaches a method of generating speech coding parameters in a bitstream based front end of a speech recognition system (Fig. 1, subblocks 304,314,312,316) wherein an observation sequence is generated (Fig. 3, subblock 317, into 307, into 306) based on LSP calculations (col. 9 lines 40-65). Cong et al (6044343) also teaches the euclidean distance between the LSP of contiguous frames (col. 2 liens 63-66, and col. 6 lines 5-7).

Cong et al (6044343) does not explicitly teach a method for detecting an erased frame and deleting a frame based on thresholding parameter values, however, Aoyagi (5826221) teaches a method for defining a threshold based upon the difference in LSP

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parameters in adjacent subframes(col. 4 lines 25- 50). Therefore, it would have been obvious to one of ordinary skill in the art of speech processing to modify the teachings of Cong et al (6044343) with thresholding and frame deletion because it would advantageously generate a more accurate representation of speech (Aoyagi (5826221), col. 2 lines 18-24).

3. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cong et al (6044343) in view of Aoyagi (5826221) in further view of Maeda (6230124).

As per claims 4,5, the combination of Cong et al (6044343) in view of Aoyagi (5826221) does not explicitly teach performing frame erasure based on an error in the most sensitive bits, especially based on lsp information and gain information, however, Maeda (6230124) teaches detecting an error by check code created from the most important bits, esp. lsp information and gain information (col. 2 lines 9,58-61; col. 2 line 9, table 1, col. 10 lines 10-15). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Cong et al (6044343) in view of Aoyagi (5826221) to detect a frame erasure based on error bits because it would improve the quality of the signal by preventing transmission path errors (Maeda (6230124), col. 1 lines 36-38,46-47).

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Response to Arguments

4. Applicant's arguments filed 8/26/2004 are most in view of the new grounds of rejection.

Conclusion

5. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872 9314,

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (703)305-4089, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To, can be reached at (703)305-4827. The facsimile phone number for this group is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (703) 305-4750, the 2600 Customer Service telephone number is (703) 306-0377.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mno 10/01/2004

> SUSAN MOFADDEN PRIMARY EXAMINEE